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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2012 Office of Secretary Of Defense **DATE:** February 2011

**APPROPRIATION/BUDGET ACTIVITY**

0400: *Research, Development, Test & Evaluation, Defense-Wide*  
BA 3: *Advanced Technology Development (ATD)*

**R-1 ITEM NOMENCLATURE**

PE 0603122D8Z: *Combating Terrorism Technology Support*

<b>COST (\$ in Millions)</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	124.901	85.299	77.019	-	77.019	89.298	90.622	92.051	94.671	Continuing	Continuing
484: <i>Combating Terrorism Technology Support (CTTS)</i>	124.901	85.299	77.019	-	77.019	89.298	90.622	92.051	94.671	Continuing	Continuing

**A. Mission Description and Budget Item Justification**

The Combating Terrorism Technical Support (CTTS) program develops and delivers capabilities that address needs and requirements with direct operational application in the national effort to combat terrorism. Projects are distributed among 10 mission categories: Advanced Analytics and Capabilities, Chemical, Biological, Radiological, and Nuclear Countermeasures; Explosives Detection; Improvised Device Defeat; Investigative Support and Forensics; Personnel Protection, Physical Security; Surveillance, Collection, and Operations Support; Tactical Operations Support; and Training Technology Development. This program is a diverse, advanced technology development effort that capitalizes on interagency and international participation to demonstrate the utility or effectiveness of technology when applied to combating terrorism requirements. It includes technology capability development, proof-of-principle demonstrations in field applications, and coordination to transition from development to operational use.

**B. Program Change Summary (\$ in Millions)**

	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>
Previous President's Budget	81.868	85.299	87.124	-	87.124
Current President's Budget	124.901	85.299	77.019	-	77.019
Total Adjustments	43.033	-	-10.105	-	-10.105
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	10.000	-			
• SBIR/STTR Transfer	-2.129	-			
• Other Adjustments	-1.078	-	-10.000	-	-10.000
• Congressional Adds	36.240	-	-	-	-
• Economic Assumptions	-	-	-0.105	-	-0.105

**Congressional Add Details (\$ in Millions, and Includes General Reductions)**

**Project:** 484: *Combating Terrorism Technology Support (CTTS)*

Congressional Add: *Full Scale Impact and Blast Loading Laboratory Testing Program*

Congressional Add: *Improved LAS Glass-Ceramic Laminated Amored Window Systems*

<b>FY 2010</b>	<b>FY 2011</b>
-	-
-	-

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<b>APPROPRIATION/BUDGET ACTIVITY</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> BA 3: <i>Advanced Technology Development (ATD)</i>		<b>R-1 ITEM NOMENCLATURE</b> PE 0603122D8Z: <i>Combating Terrorism Technology Support</i>	
<b>Congressional Add Details (\$ in Millions, and Includes General Reductions)</b>		<b>FY 2010</b>	<b>FY 2011</b>
Congressional Add: <i>Machine Augmented Composite Armor</i>		-	-
Congressional Add: <i>Validation of an Enhanced Urban Air Blast Tool</i>		-	-
Congressional Add: <i>Bioterrorism Operations Policy for Public Emergency Response (BOPPER)</i>		1.000	-
Congressional Add: <i>Robotic Mobility Platform System</i>		-	-
Congressional Add: <i>Port and Hull Security 3D, Real Time Sonar System Echoscope</i>		-	-
Congressional Add: <i>Tactical Biometric Operating and Surveillance system (TBOSS)</i>		-	-
Congressional Add: <i>Biometric Terrorist Watch-List Database Management Development</i>		-	-
Congressional Add: <i>Covert Sensing and Tagging System (CSTS)</i>		1.200	-
Congressional Add: <i>Document and Media Search and Discovery (DMSD)</i>		-	-
Congressional Add: <i>EDIT Technology for Counter-Tunnel Operations and Cache Detection</i>		-	-
Congressional Add: <i>Facial Recognition Technology Initiative</i>		-	-
Congressional Add: <i>Remote Sensor Network Services Platform</i>		-	-
Congressional Add: <i>Low Cost Stabilized Turret</i>		0.800	-
Congressional Add: <i>Roll-on Roll off Reconnaissance, Surveillance &amp; Special Mission Palletized System</i>		-	-
Congressional Add: <i>Ultra Portable Unmanned Surveillance Helicopter</i>		-	-
Congressional Add: <i>Unmanned Aerial Vehicle Avionics Upgrade (UAVAU)</i>		-	-
Congressional Add: <i>SOF Unattended Sensor Network</i>		-	-
Congressional Add: <i>Radio Inter-Operability System (RIOS)</i>		1.600	-
Congressional Add: <i>CTTSO/STAR-TEC Partnership Program</i>		-	-
Congressional Add: <i>Facility Security Using Tactical Surveys</i>		3.600	-
Congressional Add: <i>Military/Law Enforcement Counterterrorism Test Bed</i>		2.400	-
Congressional Add: <i>Affordable Robust Mid-Sized Unmanned Ground Vehicle</i>		1.600	-
Congressional Add: <i>Comprehensive and Integrated Procedures for Risk Assessment and Resource Allocation</i>		2.000	-
Congressional Add: <i>Integrated Rugged Checkpoint Container</i>		2.000	-
Congressional Add: <i>Ultra Low Profile EARS Gunshot Localization System</i>		1.200	-
Congressional Add: <i>Remote VBIED Detection and Defeat System</i>		1.200	-

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<b>Congressional Add Details (\$ in Millions, and Includes General Reductions)</b>		<b>FY 2010</b>	<b>FY 2011</b>
Congressional Add: <i>Dynamic Data Flow Management System</i>		1.600	-
Congressional Add: <i>Emergency Egress System</i>		1.600	-
Congressional Add: <i>Expeditionary Surveillance and Reconnaissance Program</i>		4.000	-
Congressional Add: <i>IdentClarity-Identity Resolution</i>		1.440	-
Congressional Add: <i>MARCENT Thermal Imaging Suite</i>		3.000	-
Congressional Add: <i>Omni Directinal Relay and Conformal Antenna</i>		2.500	-
Congressional Add: <i>Reconnaissance and Data Exploitation (REX) System</i>		3.500	-
Congressional Add Subtotals for Project: 484		36.240	-
Congressional Add Totals for all Projects		36.240	-

**Change Summary Explanation**

In the last week of FY 2010 CTTSO received a Department JUON (Joint Urgent Operational Needs) reprogramming (+\$10M) to rapidly develop of ADVANCED ANALYTICS AND CONCEPTS program required for forces in Afghanistan.

The FY 2012 baseline budget was reduced by -\$10M due to higher priorities within the Department. CTTSO will continue to assess and prioritize combating terrorism and counterinsurgency priorities and reallocate funds due to this unexpected reduction. The \$10M reduction will decrease the S&T efforts to rapidly prototype across all nine sub group programs but primarily in the Physical Security S&T efforts (-15%); Surveillance, Collection, and Operations support program (-15%); and the Tactical Operations Subgroup (-9.7%)

<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>
<b>Title:</b> CHEMICAL, BIOLOGICAL, RADIOLOGICAL AND NUCLEAR COUNTERMEASURES	5.857	7.297	6.817
<b>FY 2010 Accomplishments:</b> Evaluated performance of a pathogen- and puncture-resistant glove for military and law enforcement tactical operations. Operationally tested a tactical response boot with integrated chemical protection. Tested and evaluated an air supply pass through kit for Level A chemical protective ensembles. Developed test protocol for special-needs populations escape hoods. Tested and evaluated an advanced small-room chemical and biological filtration system. Tested and evaluated an advanced adsorbent material to capture gaseous chemical threat agents. Optimized, tested, and evaluated a software decision support tool for determination of chemical agent filter life. Developed tools for providing enhanced protection with the M53 tactical respiratory mask. Operationally tested the hydration status monitor. Developed a stand-off patient triage tool for evaluating patient viability. Developed and test a three-dimensional tracking and locating tool. Developed an orthogonal detection system for identifying toxic			

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>
<p>industrial chemicals and chemical warfare agents. Tested and evaluated a total organic carbon detector for water utility systems. Developed a standardized test method for the evaluating the effects of Electronic Countermeasures (ECM) on commercially available detectors. Developed a detection kit for homemade explosive precursor materials. Developed a best practices field guide for mail screening and handling.</p> <p><b>FY 2011 Plans:</b> Design new protective garments providing percutaneous protection against evolving threats. Perform heat stress studies on Class 3 CBRN protective ensembles. Develop next generation systems for both respiratory and collective protection. Develop noise cancelling technology for enhanced communications while wearing an self contained breathing apparatus. Evaluate a pocket-size, low-profile escape respirator for operational needs and test to the European standards. Develop a desalination filter for rendering estuary waters potable. Develop a person portable mass spectrometer with gas chromatograph inlet for the rapid detection and identification of target chemicals. Evaluate systems for detection of non-traditional agents. Evaluate the effects of ECM on commercially available detectors. Test and evaluate a new orthogonal detection system against toxic industrial chemical challenges. Test and evaluate a detection kit for homemade explosive precursor materials. Develop a risk-based decision support model for skin decontamination following dermal exposures. Develop tools for the decontamination of traditional and non-traditional agents from personnel and equipment. Field a best practices guidebook for mail screening and handling.</p> <p><b>FY 2012 Plans:</b> Develop next generation systems for both respiratory and collective protection. Develop enhanced testing procedures for the evaluation of protective ensembles. Test and evaluate inconspicuous protective garments against evolving threats. Develop, test and field protective ensembles providing enhanced chem.-bio protection in tactical environments. Operationally test and evaluate a desalination filter for military field survival situations. Evaluate tools for the decontamination of infrastructure, personnel, and equipment. Field an orthogonal system for the detection and identification of toxic industrial chemicals. Test and evaluate a person portable mass spectrometer with gas chromatograph inlet for the rapid detection and identification of target chemicals. Test and evaluate solid oxidant materials for field decontamination methods.</p>				
<p><b>Title:</b> Concept Developement</p> <p><b>Description:</b> Moved to Personnel Protection subgroup.</p> <p><b>FY 2010 Accomplishments:</b> Moved to Personnel Protection subgroup</p> <p><b>FY 2011 Plans:</b> Moved to Personnel Protection subgroup</p>		-	-	-
<b>Title:</b> EXPLOSIVES DETECTION		7.286	8.004	7.408

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>
<b><i>FY 2010 Accomplishments:</i></b> Developed active illumination upgrade to imaging and anomaly detection systems for personnel screening. Conducted a side-by-side evaluation of sensors for suicide bomber detection. Evaluated sub millimeter wave imaging and anomaly detection technology for standoff detection. Investigated spectra of chemical compounds related to the presence of explosives or physical signatures of components for database. Tested and evaluated vehicle X-ray system. Demonstrated feasibility of expeditionary wet chemical detection kits for explosive precursors. Demonstrated feasibility of a walkthrough explosive detection portal.				
<b><i>FY 2011 Plans:</i></b> Incorporate fusion and detection algorithms, synchronize electronics, and demonstrate feasibility of an active illumination upgrade to imaging and anomaly detection system. Develop breadboard sub millimeter wave imaging and anomaly detection system. Incorporate spectra of explosive signatures into existing databases. Fabricate and assess prototype expeditionary wet chemical kits for explosives precursor detection. Fabricate and test a walkthrough explosives detection portal.				
<b><i>FY 2012 Plans:</i></b> Incorporate unique explosive spectra into a prototype detection system. Fabricate the prototype of an orthogonal sensor standoff system. Continue development of systems for sub-millimeter wave imaging of personnel for explosive detection. Fabricate and assess prototype expeditionary wet chemical kits for explosives precursor detection. Develop a portable system to quickly screen personnel for explosive threats at temporary venues.				
<b><i>Title:</i></b> IMPROVISED DEVICE DEFEAT		4.878	5.901	5.610
<b><i>FY 2010 Accomplishments:</i></b> Fielded, and tested a robotically deployed JAUS compliant visual and X-ray targeting system. Transitioned the Eyeball R1 camera system to COTS and integrate with EOD robotic platforms. Conducted explosive tool characterization of select IED/VBIED countercharges and disruptors for population of the Decision Support Tool Characterization Guide. Developed a manual manipulation tool kit for IED interrogation. Upgraded, tested, and evaluated currently fielded ECM systems for the neutralization of IEDs. Developed an instant IED notification system. Field-tested and evaluated the Body Bomb Tool Kit. Tested the robotically employed Single-Sided X-ray Imaging System. Developed advance power solutions for conducting sustained robotics operations and employment of EOD-peculiar equipment. Developed and field a camera blinding system for special operations. Developed interchangeable end effectors for use on robotic arms. Evaluated emerging remote control improvised explosive device (RCIED) threats to aid in the development, design, and testing of next generation ECM-related bomb disposal equipment.				
<b><i>FY 2011 Plans:</i></b> Design, and develop next generation ECM-related equipment. Incorporate final modifications and commercialize the robotically employed Single-Sided X-ray Imaging System. Conduct explosive tool characterization of select IED/VBIED disruption charges for population of the Tool Characterization Guide. Develop an enhanced manual entry capability for access and diagnostics of				

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terrorist devices. Develop advance detection and diagnostic tools for support of mass transit incidents involving acts of terrorism. Field-test, and evaluate ECM tools and equipment to counter emerging RCIED threats. Develop tools and equipment for the neutralization of surface, subsurface, and underwater explosive threats. Develop a VBIED Precision Identification and Disruption Tool. Develop tools and methods to neutralize homemade explosives. Field-test, and evaluate the robotically deployed VBIED access tool kit. Evaluate the camera blinder prototype. Test the Single-Sided Imaging System.  <b>FY 2012 Plans:</b> Incorporate unique explosive spectra into a prototype detection system. Fabricate the prototype of an orthogonal sensor standoff system. Continue development of systems for sub-millimeter wave imaging of personnel and vehicles for explosive detection. Fabricate and assess prototype expeditionary wet chemical kits for explosives precursor detection. Develop a portable system to quickly screen personnel for explosive threats at temporary venues.				
<b>Title:</b> INFRASTRUCTURE PROTECTION  <b>FY 2010 Accomplishments:</b> Moved to Physical Security.  <b>FY 2011 Plans:</b> N/A		-	-	-
<b>Title:</b> INVESTIGATIVE SUPPORT AND FORENSICS  <b>FY 2010 Accomplishments:</b> Fielded improved questioned document analysis techniques for analyzing disguised handwriting. Expanded human scent collection from forensic evidence research. Fielded advance interview techniques based on cognitive load principles. Identified shortcomings within deployment, training, and training aids for military working dogs. Distributed an automated system for collecting hidden computer data. Fielded automated credibility assessment procedures. Delivered a thermal imaging polygraph measurement system. Fielded canines for detection of suicide bombers and tunnels.  <b>FY 2011 Plans:</b> Distribute a trace explosive materials reference and pocket guide. Field protocols for forensic bomb render safe procedures. Produce advanced techniques for efficient direct interpersonal credibility assessments. Distribute advanced computer forensic technologies. Evaluate the efficiency and accuracy of facial expression credibility systems. Deliver a canine-borne surveillance system. Field a combating terrorism and reliability assessment tool. Establish an online accessible forensic video player examination reference system. Distribute soil location identification system. Deliver a remote viewer for evidence manipulation and comparison for use between theater and U.S.-based labs.  <b>FY 2012 Plans:</b>		3.747	4.585	4.431

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>
Characterize EOD Disruptors fired against HME. Develop next generation ECM-related equipment. Conduct explosive tool characterization of IED/VBIED counter charges and update the Tool Characterization Guide. Deliver the Miniaturized IED Diagnostics and Defeat Kit for Special Operating Forces. Develop equipment to counter emerging RCIED threats. Develop tools and equipment for the neutralization of surface, subsurface, and underwater explosive threats. Deliver and commercialize the expanded Body Bomb Tool Kit for robotic employment. Study dress down alternatives for bomb suits.				
<b>Title:</b> PHYSICAL SECURITY  <b>FY 2010 Accomplishments:</b> Improved and develop decision aids to assist with pre-event, preventative planning. Promulgated common test protocols and design standards based on results from threat-based test programs. Continued test program in an urban environment to better understand impact on facades, street furniture, tunnels, and infrastructure. Characterized homemade explosive mixes. Developed deployable, tactical and integrated security system concepts. Test and compare prescreening and surveillance equipment that is usable by security forces in high threat operations. Developed a database that meets interagency and international requirements to address the adaptive threat associated with homemade explosives based on past characterization and research data. Developed capabilities to detect, locate, survey, and disrupt subterranean operations. Expanded focus areas to include harbor and port security solutions  <b>FY 2011 Plans:</b> Deploy decision aids to assist with pre-event, preventative planning. Coordinate results from test programs to determine best solutions for temporary, semi-permanent or permanent facilities. Coordinate design standards with appropriate government agencies for increased force protection. Expand test program in an urban environment to include novel explosives and effects of soft structures. Complete construction of a facility for iterative testing of equipment and tactics, techniques, and procedures. Deploy deployable, tactical and integrated security system concepts. Develop enhanced video assessment and tracking techniques. Deploy a comprehensive homemade explosives database with multiple levels of access. Deploy and integrate capabilities to detect, locate, survey, and disrupt subterranean operations. Develop solutions for harbor and port security solutions.  Demonstrate a system that provides night vision capabilities to austere outposts. Provide advanced technologies for operational assessments, field training, and operational support that satisfy urgent requirements in support of deployed forces. Demonstrate an integrated suite of ruggedized screening technologies.  <b>FY 2012 Plans:</b> Continue test program in an urban environment using modular configurations to represent urban environments to better understand impact of fixed urban structures on blast wave propagation. Demonstrate a fast running tool to assist DoD and		12.018	14.712	12.330

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first responder personnel in predictive analysis in an urban environment. Field test enhanced video assessment and tracking techniques. Continue to populate a comprehensive homemade explosives database with multiple levels of access. Operationally test and evaluate a next generation SWIR for use in tactical environments. Field test a portable persistent surveillance system for covert emplacement and enhanced tracking of potential illegal activity. Transition a security system that contains a camera observation system and a sensor alarm system in one for semi-covert and concealable installation.				
<b>Title:</b> BUSINESS OPERATIONS <b>Description:</b> Formerly named Program Management.  <b>FY 2010 Accomplishments:</b> Provided program management oversight and technical support for CTTS R&D projects including funds from other agencies and management of international cooperative R&D programs. Established goals, objectives, and immediate revisions to plans that will reinforce interagency participation for the identification and prioritization of CTTS mission area requirements. Directed the program, planning and execution for projects and associated contracts using direct and indirect budget allocations. Reviewed and revise existing process and execution plans for CTTS mission area management and reporting responsibilities.  <b>FY 2011 Plans:</b> Provide program management oversight and technical support for CTTS R&D projects including funds from other agencies and management of international cooperative R&D programs. Establish goals, objectives, and immediate revisions to plans that will reinforce interagency participation for the identification and prioritization of CTTS mission area requirements. Direct the program, planning and execution for projects and associated contracts using direct and indirect budget allocations. Review and revise existing process and execution plans for CTTS mission area management and reporting responsibilities.  <b>FY 2012 Plans:</b> Provide program management oversight and technical support for CTTS R&D projects including funds from other agencies and management of international cooperative R&D programs. Manage the business execution of the CTTS Program. Direct the program, planning and execution for projects and associated contracts using direct and indirect budget allocations. Provide effective management support tools to improve efficiencies. Review and revised existing process and execution plans for CTTS mission area management and reporting responsibilities. Increase organization outreach. Facilitate technology transition.		14.901	9.780	8.983
<b>Title:</b> SURVEILLANCE, COLLECTION AND OPERATIONS SUPPORT <b>FY 2010 Accomplishments:</b> Enhanced various technologies for precise geolocation of targets of interest. Improved tagging, tracking and locating infrastructure including development of smart tags that can alert preset conditions. Developed tools to assist in the tactical triage		12.240	14.595	12.356

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<p>of collected Cellular exploitation micro-electronic device exploitation especially in languages of particular interest. Developed exfiltration capabilities for real-time audio and video surveillance.</p> <p><b>FY 2011 Plans:</b> Adapt and integrate existing foreign language applications, practices, and tools into a tactical site exploitation capability. Improve the timely collection of intelligence and evidence to support follow-on targeting, effective detainee prosecution, and theater-wide exploitation of tactical intelligence. Enhance the capability to identify targets through biometric modalities. Streamline the processes of data collection, sharing, identity management, mobile identification and detection of targets of interest. Develop enhanced capabilities, force structures, and training programs to leverage Information Operations capabilities</p> <p><b>FY 2012 Plans:</b> Field technical surveillance capabilities. Improve operational tactics, techniques, and procedures used by military working dog teams. Deploy expeditious foreign language analytical tools in support of tactical exploitation. Enhance research and technology to assist analysts with biometric intelligence and reporting. Develop advanced Information Operations applications, practices, and tools. Evaluate methods of improving intelligence, surveillance, and reconnaissance technologies in Unmanned Aerial Systems.</p>				
<p><b>Title:</b> TACTICAL OPERATIONS SUPPORT</p> <p><b>FY 2010 Accomplishments:</b> Developed an integrated, handheld device that combines a COTS GPS receiver, a standard military Blue Force Tracker and Combat Survivor/Evader Locator radio for use during evasion of enemy forces or contingency operations. Developed an ultra-lightweight UAS payload with cooled IR, color CCD, laser pointer and laser designator for UAS applications. Developed a persistent real-time surveillance system that will have an integrated power supply (72 hrs live streaming) and SATCOM/Cellular data-link connection. Developed a system that provides a self-healing, ad hoc mesh air-to-ground network for the transmission of real-time communications (voice and data). Developed a comprehensive reference source to summarize the performance characteristics of the available and proven breaching methods, tools, and tactics as they apply to the maritime environment. Developed a time-activated restraint and release system to temporarily restrain potential threat individuals for a predetermined period of time. Developed a backlit wrist worn compass that allows the end user to easily view cardinal directions whether in a well-lit or dark environment. Developed a fully integrated helmet using advanced materials that is capable of withstanding NIJ Level IIIA body armor ballistic threats as well as bodily damage against blast, fragmentation, and blunt trauma threats. Developed an internal frame load bearing system that provides the wearer with a system that easily accepts standard hard and soft armor plates, distributes the weight of the armor and load evenly throughout the body, and does not restrict any normal body movements. Developed systems for the exploitation of commercial electronics, communications and computing for special reconnaissance. Developed a mortar targeting system with an integrated Fire Control System that provides rapid firing solutions and translates that to auto-laying of either a 120mm or 81mm US standard mortar tubes. Developed a point of instruction and</p>		7.405	8.049	7.445

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>
<p>provide new equipment for special operations forces to enhance advanced marksmanship at ranges up to 600 meters. Developed a small, affordable imaging device capable of extracting object depth information along with a video stream of scenes. Delivered a portable system of wireless infrared illuminators with motion sensors to enhance site security for tactical forces. Delivered an optical voice and data communications system that attaches to a sniper optical device for use during tactical operations.</p> <p><b>FY 2011 Plans:</b>            Develop a lightweight, compact personal IR emitter capability for emplacement on a person's helmet or outermost garment. Develop a training aid to improve a soldier's trigger control, resulting in better shooting proficiency and shorter training time. Develop and deliver an ultra-mobile tactical computer for use by ground forces. Deliver an integrated, handheld device that combines a COTS GPS receiver, a standard military Blue Force Tracker and Combat Survivor/Evader Locator radio for use during evasion of enemy forces or contingency operations. Deliver an ultra-lightweight UAS payload with cooled IR, color CCD, laser pointer and laser designator for UAS applications. Deliver a persistent real-time surveillance system that will have an integrated power supply (72 hrs live streaming) and SATCOM/Cellular data-link connection. Deliver a system that provides a self-healing, ad hoc mesh air-to-ground network for the transmission of real-time communications (voice and data). Deliver a comprehensive reference source to summarize the performance characteristics of the available and proven breaching methods, tools, and tactics as they apply to the maritime environment. Deliver a time-activated restraint and release system to temporarily restrain potential threat individuals for a predetermined period of time. Deliver a backlit wrist worn compass that allows the end user to easily view cardinal directions whether in a well-lit or dark environment. Deliver a fully integrated helmet using advanced materials that is capable of withstanding NIJ Level IIIA body armor ballistic threats as well as bodily damage against blast, fragmentation, and blunt trauma threats. Deliver an internal frame load bearing system that provides the wearer with a system that easily accepts standard hard and soft armor plates, distributes the weight of the armor and load evenly throughout the body, and does not restrict any normal body movements. Deliver systems for the exploitation of commercial electronics, communications and computing for special reconnaissance. Deliver a mortar targeting system with an integrated Fire Control System that provides rapid firing solutions and translates that to auto-laying of either a 120mm or 81mm US standard mortar tubes. Deliver a point of instruction and provide new equipment for special operations forces to enhance advanced marksmanship at ranges up to 600 meters. Deliver a small, affordable imaging device capable of extracting object depth information along with a video stream of scenes.</p> <p><b>FY 2012 Plans:</b>            Develop an upper receiver group that provides significant suppression of both sound and flash from the current US standard M4 carbine. Develop a handheld intelligence, surveillance, target acquisition, reconnaissance system. Develop a single-man portable, collapsible-wing tactical unmanned aerial system with a secure mobile ad-hoc network data-link that is capable of being hand-launched in a man-portable canister. Develop a communication system that allows Tactical Operations Centers to send and receive large amounts of data from front-line operators in real-time. Develop a system that will alert a commander as to the status of his deployed sniper teams. Deliver a lightweight, compact personal IR emitter capability for emplacement on a person's</p>				

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>
helmet or outermost garment. Deliver a training aid to improve a soldier's trigger control, resulting in better shooting proficiency and shorter training time.				
<b>Title:</b> TRAINING TECHNOLOGY DEVELOPMENT  <b>FY 2010 Accomplishments:</b> Developed adaptive, artificial intelligent crowd models to train warfighters in handling crowd-related scenarios (e.g., riot control, disaster management, emergency evacuation, rescue operations, urbanized conflicts, etc.), formulate strategies, answer "what-if" scenarios, and evaluate contingency plans. Designed and develop a simulator for the M134 Minigun weapon system that accurately mimics the form and functionality of the actual weapon system, and integrate the simulator into a simulated training environment with realistic scenarios. Developed a virtual live-fire simulation housed in a container that can duplicate the conditions of a long, known distance range complex and an urban environment.  <b>FY 2011 Plans:</b> Design and develop a training package that includes instructor-led training and supporting publications for the squad leader/observer and his squad to access Close Air Support (CAS). Develop a user reloadable device that can be used during training scenarios to provide realistic consequences for a simulated IED or Explosively Formed Penetrator. Analyze mobile learning architectures and Web 2.0 technologies and develop job aids, content resources, and training courses for use within the military.  <b>FY 2012 Plans:</b> Design and develop a training package, including computer-based training, instructor-led training, and student support materials, on the topic of counter tunnel investigations. Analyze, design, and develop best practices for the military community on the implementation of the Shareable Content Object Reference Model. Design and develop an enhanced improvised explosive devices (IEDs) effects training capability for use in a live, virtual, and constructive (LVC) training environment. Conduct an assessment study of existing commercial, military, interagency, and international Homemade Explosives (HME) training courses. Design, develop, and evaluate a training aid to improve soldier's trigger control.		3.854	4.322	4.190
<b>Title:</b> Personnel Protection  <b>Description:</b> Formerly named VIP Protection  <b>FY 2010 Accomplishments:</b> Tested and deployed the ruggedized VIP security kit for indoor/outdoor surveillance and intrusion detection. Evaluated domestic and overseas performance of the high-risk personnel tracking and locating device. Developed a protective services portal training system for incorporation into an existing law enforcement training course and a stand-alone portal for use in the field. Demonstrated performance of the advanced methodologies and automated analytical tools on counterintelligence data sets. Tested the post-event gunfire analysis tool against audio files of known weapon firings. Deployed the portable MANPADS		7.075	8.054	7.449

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>
<p>pre-launch detection for operational evaluation. Installed the networked vehicle anti-tamper system on a variety of tactical response vehicles and evaluate monitoring and alerting capabilities. Demonstrated the effectiveness of window tinting system in a standalone window. Developed a personal security vulnerability assessment (PSVA) software tool to facilitate PSVA development aiding in determining need, scope and size of required protection. Researched and developed behind armor blunt trauma injury thresholds using the canine physiology, apply the developed criteria to develop an armor solution for working canines. Developed a tool to assess total body deformation during a low rate loading event.</p> <p><b>FY 2011 Plans:</b> Deploy the protective services portal training system at federal law enforcement training centers and deploy the standalone protective services portal. Deploy the PSVA tool on a government sponsored site for use by all government protective details. Test and certify the canine armor system for use by military working dogs. Incorporate the total body deformation tool and analysis in the development of protective solutions for vehicles, ships, and buildings. Test and validate the emergency response capabilities of alternative fuel vehicles. Develop a novel multi-threat concealable body armor system. Install the window tinting system in an armored passenger vehicle and assess improvements in information security and reduction in focused attack accuracy. Develop a new test device to determine behind armor blunt trauma of body armor systems. Deploy the high-risk personnel tracking and locating system domestically and overseas. Research and develop a new limit for the backface signature limit, to reduce behind armor blunt trauma injuries.</p> <p>Deliver a tactical survey system for managing crisis situations and improving emergency response and preparations at critical installations. Deliver a program of instruction that enables tactical operators to develop and sustain human networks for enduring operations. Deliver a low-profile gunshot localization system that will enhance the situational awareness and survivability of tactical forces.</p> <p><b>FY 2012 Plans:</b> Test and certify the canine armor system for use by military working dogs. Deploy the protective services portal training system at federal law enforcement training centers and deploy the stand-alone protective services portal. Incorporate the total body deformation tool and analysis in the development of protective solutions for vehicles, ships, and buildings. Deploy systems to enhance situational awareness, intelligence collection capabilities, and personnel recovery efforts. Test and validate the performance of multi-threat concealable body armor. Develop a system for vehicle protection in crowds. Incorporate the result of the backface signature limit research to a new injury standard for the evaluation of body armor. Develop a mobile surveillance platform that captures, records, encrypts, and streams multi-channel video and audio with associated GPS position information.</p>				
<p><b>Title:</b> Advanced Analytics and Concepts</p> <p><b>Description:</b> New Sub-group developed based on reprogramming action.</p>		9.400	-	-

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>
<b><i>FY 2010 Accomplishments:</i></b> FY 2010 Accomplishments: New program being developed using FY10 Reprogramming Funds. Funds received the first week of October.  <b><i>FY 2011 Plans:</i></b> FY 2011 Plans: Develop and apply new models and tools that improve "sense-making" from complex data streams. Develop, apply, and deploy analytic platforms and tools that fuse a variety of data sources, tools, and models (including socio-cultural dynamic models) into advanced analytical systems used by interagency Intel and operational communities at the strategic, operational, and tactical levels. Support sustained tactical operations through development and fielding of enhanced layered defensive capabilities by anticipating and avoiding threats through understanding the cyber situation, anticipating adversarial actions, assessing potential impacts, and by implementing defensive methodologies. Develop interagency tactical solutions not addressed in national cyber-defense programs Develop field-capable technologies that enable training and/or mission rehearsal of adaptive skills that includes cultural understanding, interpersonal communication, and teamwork while effectively utilizing state-of-the-art advanced analytic systems.				
<b>Accomplishments/Planned Programs Subtotals</b>		88.661	85.299	77.019
		<b>FY 2010</b>	<b>FY 2011</b>	
<b><i>Congressional Add:</i></b> Full Scale Impact and Blast Loading Laboratory Testing Program		-	-	
<b><i>FY 2010 Accomplishments:</i></b> N/A				
<b><i>Congressional Add:</i></b> Improved LAS Glass-Ceramic Laminated Amored Window Systems		-	-	
<b><i>FY 2010 Accomplishments:</i></b> N/A				
<b><i>Congressional Add:</i></b> Machine Augmented Composite Armor		-	-	
<b><i>FY 2010 Accomplishments:</i></b> N/A				
<b><i>Congressional Add:</i></b> Validation of an Enhanced Urban Air Blast Tool		-	-	
<b><i>FY 2010 Accomplishments:</i></b> N/A				
<b><i>Congressional Add:</i></b> Bioterrorism Operations Policy for Public Emergency Response (BOPPER)		1.000	-	
<b><i>FY 2010 Accomplishments:</i></b> Continued effort in method development and testing in support of bioterrorism operations and public health preparedness.				
<b><i>Congressional Add:</i></b> Robotic Mobility Platform System		-	-	

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		<b>FY 2010</b>	<b>FY 2011</b>
<b>FY 2010 Accomplishments:</b> N/A			
<b>Congressional Add:</b> Port and Hull Security 3D, Real Time Sonar System Echoscope		-	-
<b>FY 2010 Accomplishments:</b> N/A			
<b>Congressional Add:</b> Tactical Biometric Operating and Surveillance system (TBOSS)		-	-
<b>FY 2010 Accomplishments:</b> N/A			
<b>Congressional Add:</b> Biometric Terrorist Watch-List Database Management Development		-	-
<b>FY 2010 Accomplishments:</b> N/A			
<b>Congressional Add:</b> Covert Sensing and Tagging System (CSTS)		1.200	-
<b>FY 2010 Accomplishments:</b> Continued effort to develop data fusion algorithms to improve detection automation and classification performance for tagging system.			
<b>Congressional Add:</b> Document and Media Search and Discovery (DMSD)		-	-
<b>FY 2010 Accomplishments:</b> N/A			
<b>Congressional Add:</b> EDIT Technology for Counter-Tunnel Operations and Cache Detection		-	-
<b>FY 2010 Accomplishments:</b> N/A			
<b>Congressional Add:</b> Facial Recognition Technology Initiative		-	-
<b>FY 2010 Accomplishments:</b> N/A			
<b>Congressional Add:</b> Remote Sensor Network Services Platform		-	-
<b>FY 2010 Accomplishments:</b> N/A			
<b>Congressional Add:</b> Low Cost Stabilized Turret		0.800	-
<b>FY 2010 Accomplishments:</b> Continued effort to provide light weight, low cost solutions for airborne autonomous surveillance systems.			
<b>Congressional Add:</b> Roll-on Roll off Reconnaissance, Surveillance & Special Mission Palletized System		-	-
<b>FY 2010 Accomplishments:</b> N/A			
<b>Congressional Add:</b> Ultra Portable Unmanned Surveillance Helicopter		-	-

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		<b>FY 2010</b>	<b>FY 2011</b>
<b>FY 2010 Accomplishments:</b> N/A			
<b>Congressional Add:</b> Unmanned Aerial Vehicle Avionics Upgrade (UAVAU)		-	-
<b>FY 2010 Accomplishments:</b> N/A			
<b>Congressional Add:</b> SOF Unattended Sensor Network		-	-
<b>FY 2010 Accomplishments:</b> N/A			
<b>Congressional Add:</b> Radio Inter-Operability System (RIOS)		1.600	-
<b>FY 2010 Accomplishments:</b> Continued effort to developed a capability to provide radio gateways between military and civilian communications centers.			
<b>Congressional Add:</b> CTTSO/STAR-TEC Partnership Program		-	-
<b>FY 2010 Accomplishments:</b> N/A			
<b>Congressional Add:</b> Facility Security Using Tactical Surveys		3.600	-
<b>FY 2010 Accomplishments:</b> Developed a tactical survey system for managing crisis situations and improving emergency response and preparations at critical installations. Develop a program of instruction that enables tactical operators to develop and sustain human networks for enduring operations. Developed a low-profile gunshot localization system that will enhance the situational awareness and survivability of tactical forces.			
<b>Congressional Add:</b> Military/Law Enforcement Counterterrorism Test Bed		2.400	-
<b>FY 2010 Accomplishments:</b> Continued efforts in improved surveillance, detection, and use of Law Enforcement Capabilities to enhance the nation's law enforcement and military and counter-terrorism capabilities.			
<b>Congressional Add:</b> Affordable Robust Mid-Sized Unmanned Ground Vehicle		1.600	-
<b>FY 2010 Accomplishments:</b> New program that is being developed in the Improvised Device Defeat Sub-group			
<b>Congressional Add:</b> Comprehensive and Integrated Procedures for Risk Assessment and Resource Allocation		2.000	-
<b>FY 2010 Accomplishments:</b> New program that is being is just being developed for execution in late FY 2010.			
<b>Congressional Add:</b> Integrated Rugged Checkpoint Container		2.000	-
<b>FY 2010 Accomplishments:</b> New program that is being developed in the Tactical Operations Support Sub-group			
<b>Congressional Add:</b> Ultra Low Profile EARS Gunshot Localization System		1.200	-

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		<b>FY 2010</b>	<b>FY 2011</b>
<b>FY 2010 Accomplishments:</b> New program that is being developed in the Tactical Operations Support Sub-group			
<b>Congressional Add:</b> Remote VBIED Dection and Defeat System		1.200	-
<b>FY 2010 Accomplishments:</b> New program that is being developed in the Improvised Device Defeat Sub-group			
<b>Congressional Add:</b> Dynamic Data Flow Management System		1.600	-
<b>FY 2010 Accomplishments:</b> New program that is being developed in the Surveillance, Collection and Operations Support Sub-group.			
<b>Congressional Add:</b> Emergency Egress System		1.600	-
<b>FY 2010 Accomplishments:</b> New program that is being developed in the Personnel Protection Sub-Group			
<b>Congressional Add:</b> Expeditionary Surveillance and Reconnaissance Program		4.000	-
<b>FY 2010 Accomplishments:</b> New program that is being developed in the Surveillance, Collection and Operations Support Sub-group.			
<b>Congressional Add:</b> IdentClarity-Identity Resolution		1.440	-
<b>FY 2010 Accomplishments:</b> New program that is being developed in the Surveillance, Collection and Operations Support Sub-group.			
<b>Congressional Add:</b> MARCENT Thermal Imaging Suite		3.000	-
<b>FY 2010 Accomplishments:</b> New program that is being developed in the Surveillance, Collection and Operations Support Sub-group.			
<b>Congressional Add:</b> Omni Directinal Relay and Conformal Antenna		2.500	-
<b>FY 2010 Accomplishments:</b> New program that is being developed in the Surveillance, Collection and Operations Support Sub-group.			
<b>Congressional Add:</b> Reconnaissance and Data Exploitation (REX) System		3.500	-
<b>FY 2010 Accomplishments:</b> New program that is being developed in the Surveillance, Collection and Operations Support Sub-group.			
<b>Congressional Adds Subtotals</b>		36.240	-

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<b>D. Other Program Funding Summary (\$ in Millions)</b> N/A		
<b>E. Acquisition Strategy</b> Not applicable for this item.		
<b>F. Performance Metrics</b> <p>Long Term Strategies: Obtain adequate funding to support critical shortfalls; prioritize proposals that are deemed acceptable and allocate funding accordingly; establish outreach programs with the interagency to leverage institutional knowledge and expertise; utilize cooperative research and development (R&amp;D) agreements with the United Kingdom, Canada, Israel, Singapore, and Australia to leverage technology investments.</p> <p>Performance Indicator and Rating:</p> <p>FY 2010 Target:            70% of currently funded research projects are completed on time            5% increase in the number of projects transitioning to operational use            Continue full R&amp;D programs with existing and new foreign partners</p> <p>Verification: The CTTS Program utilizes a database to track the status of the projects. Quarterly program reviews are conducted to assess project status. In addition, an annual report is produced that assesses the status of current projects and the ability to accept new projects.</p> <p>Validation: Completed research products increase the capabilities of the DoD to effectively detect, deter, and defend against terrorist attacks; thus the Departments personnel and interests at home and abroad are safer from terrorism.</p> <p>FY 2011 Target:            70% of currently funded research projects are completed on time            5% increase in the number of projects transitioning to operational use            Continue full R&amp;D programs with five existing foreign partners</p> <p>Verification: The CTTS Program utilizes a database to track the status of the projects. Quarterly program reviews are conducted to assess project status. In addition, an annual report is produced that assesses the status of current projects and the ability to accept new projects.</p> <p>Validation: Completed research products increase the capabilities of the DoD to effectively detect, deter, and defend against terrorist attacks; thus the Departments personnel and interests at home and abroad are safer from terrorism.</p>		

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